QC ABSTRACT

Nameof Work: Entrustment of work General Public toilet and Septage maintenance in Ward No.15 Dasarahalli, BBMP, Bangalore.

Sl. No.	Item	Quantity As Per BOQ	Required No's of testes	Actual No's of testes	Testes	Frequency
1	1:3:6	27.00 Cum	1	1	Cement	One Test Per Lot
					Sand, Aggregates	
2	M20	27.00 Cum	3	3	Concrete Cube Compressive Strength	-
3	Slab (100mm)	25.00 Sqm	1	1	Concrete Core Compressive Strength	-
4	WMM	27.00 Cum	-	-	-	-
		Gradation.	1	1	-	-
		AIV	1	1	-	-
		Shape Test	1	1	-	-
		Atterberg Limits	1	1	-	-

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Job No.: CACE/BBMP/CDL/W.No.15/2021-22 Date: 30.06.2021

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Sri. Chandrashekar D L,** Contractor, Bangalore.
NAME OF THE WORK	:	General Public toilet and Septage maintenance in Ward No.15 Dasarahalli, BBMP, Bangalore.
SAMPLE ID	:	Cement (Birla OPC 53 Grade)
DATE OF MANUFACTURE	:	May- 2021
DATE OF TESTING	:	28.06.2021 to 30.06.2021
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	120 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	340 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00 %	-

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Date :30.06.2021

Job No.: CACE/BBMP/CDL/W.No.15/2021-22

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Chandrashekar D L,** Contractor, Bangalore.

Name of Work : General Public toilet and Septage maintenance in Ward No.15 Dasarahalli, BBMP, Bangalore.

Date of Testing :30.06.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	84	8.40	8.40	91.6	90-100
2.36	132	13.20	21.60	78.4	75-100
1.18	166	16.60	38.20	61.8	55-90
600 Micron	159	15.90	54.10	45.9	35-59
300 Micron	220	22.00	76.10	23.9	8-30
150 Micron	164	16.40	92.50	7.5	0-10

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Job No.: CACE/BBMP/CDL/W.No.15/2021-22 Date :30.06.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Chandrashekar D L,** Contractor, Bangalore.

Name of Work : General Public toilet and Septage maintenance in Ward No.15 Dasarahalli, BBMP, Bangalore.

Date of Testing :30.06.2021

Material : Sand - Masonry Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	12	1.20	1.20	98.8	90-100
1.18	35	3.50	4.70	95.3	70-100
600 Micron	89	8.90	13.60	86.4	40-100
300 Micron	245	24.50	38.10	61.9	5-70
150 Micron	505	50.50	88.60	11.4	0-15

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Date :30.06.2021

Job No.: CACE/BBMP/CDL/W.No.15/2021-22

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Chandrashekar D L,** Contractor, Bangalore.

Name of Work : General Public toilet and Septage maintenance in Ward No.15 Dasarahalli, BBMP, Bangalore.

Date of Testing :30.06.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	184	3.7	3.7	96.3	95-100
10	2430	48.6	52.3	47.7	25-55
4.75	1958	39.2	91.4	8.6	0-10

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Date :30.06.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Chandrashekar D L,** Contractor, Bangalore.

Name of Work : General Public toilet and Septage maintenance in Ward No.15 Dasarahalli, BBMP, Bangalore.

Date of Testing :30.06.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	188	1.25	1.25	98.75	95-100
20	8230	54.87	56.12	43.88	30-70
10	3265	21.77	77.89	22.11	10-35
4.75	2856	19.04	96.93	3.07	0-5

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Date: 23.06.2021

Aggregate Impact Value

Client	**Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
Agency	**Sri. Chandrashekar D L,** Contractor, Bangalore.
Name of the Work	General Public toilet and Septage maintenance in Ward No.15 Dasarahalli, BBMP, Bangalore.
IS Code	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	23.06.2021

Sl No.	Details	Test No. 1	Test No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	382	384	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	85	87	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	297	297	
4	Aggregate Impact value = percent fines $100^* (W_2/W_1)$%	22.25	22.66	**22.45**

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specication table 400.12)

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Date : 23.06.2021

GRADATION FOR WMM

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Chandrashekar D L,** Contractor, Bangalore.

Name of Work : General Public toilet and Septage maintenance in Ward No.15 Dasarahalli, BBMP, Bangalore.

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing : 23.06.2021

Material Type : Wet Mix Macadam

Oven Dry.Wt, grams 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	189	189	1.9	98.1	95-100
22.4	2536	2725	27.3	72.8	60-80
11.2	2415	5140	51.4	48.6	40-60
4.75	1798	6938	69.4	30.6	25-40
2.36	1135	8073	80.7	19.3	15-30
0.600	588	8661	86.6	13.4	8-22
0.075	1065	9726	97.3	2.7	0-5

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Job No.: CACE/BBMP/CDL/W.No.15/2021-22 Date : 23.06.2021

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
Agency	**Sri. Chandrashekar D L,** Contractor, Bangalore.
Name of Work	General Public toilet and Septage maintenance in Ward No.15 Dasarahalli, BBMP, Bangalore.
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	23.06.2021

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	12.10	12.40	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	13.60	14.10	
	Combined Flakiness & Elongation index	25.70	26.50	

Note:

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Job No.: CACE/BBMP/CDL/W.No.15/2021-22

Date 25.06.2021

ATTERBERG LIMITS TEST FOR WMM

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri. Chandrashekar D L,** Contractor, Bangalore.

Name of Work : General Public toilet and Septage maintenance in Ward No.15 Dasarahalli, BBMP, Bangalore.

IS Code: : IS 2720(Part 5):1985

Date of Testing : 23.06.2021 to 25.06.2021

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	21.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Job No.: CACE/BBMP/CDL/W.No.15/2021-22

Date: 12.07.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Dasarahalli sub Division, BBMP, Bangalore.

Agency : **Sri. Chandrashekar D L,** Contractor, Bangalore.

Name of the work : General Public toilet and Septage maintenance in Ward No.15 Dasarahalli, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.07.2021	12.07.2021	8.165	336.3	14.95
2	05.07.2021	12.07.2021	8.138	345.5	15.36
3	05.07.2021	12.07.2021	8.146	352.8	15.68

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Job No.: CACE/BBMP/CDL/W.No.15/2021-22

Date: 02.08.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Dasarahalli sub Division, BBMP, Bangalore.

Agency : **Sri. Chandrashekar D L,** Contractor, Bangalore.

Name of the work : General Public toilet and Septage maintenance in Ward No.15 Dasarahalli, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.07.2021	02.08.2021	8.168	505.2	22.45
2	05.07.2021	02.08.2021	8.184	516.8	22.97
3	05.07.2021	02.08.2021	8.169	484.9	21.55

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Date: 12.07.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Dasarahalli sub Division, BBMP, Bangalore.

Agency : **Sri. Chandrashekar D L,** Contractor, Bangalore.

Name of the work : General Public toilet and Septage maintenance in Ward No.15 Dasarahalli, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.07.2021	12.07.2021	8.163	363.3	16.15
2	05.07.2021	12.07.2021	8.138	345.5	15.36
3	05.07.2021	12.07.2021	8.146	338.2	15.03

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Date: 02.08.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Dasarahalli sub Division, BBMP, Bangalore.

Agency : **Sri. Chandrashekar D L,** Contractor, Bangalore.

Name of the work : General Public toilet and Septage maintenance in Ward No.15 Dasarahalli, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.07.2021	02.08.2021	8.188	505.6	22.47
2	05.07.2021	02.08.2021	8.165	516.3	22.97
3	05.07.2021	02.08.2021	8.152	484.3	21.52

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Dasarahalli sub Division, BBMP, Bangalore.

Agency : **Sri. Chandrashekar D L,** Contractor, Bangalore.

Name of the work : General Public toilet and Septage maintenance in Ward No.15 Dasarahalli, BBMP, Bangalore.

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2	05.07.2021	12.07.2021	8.138	345.5	15.36
3	05.07.2021	12.07.2021	8.146	338.2	15.03

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Date: 02.08.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Dasarahalli sub Division, BBMP, Bangalore.

Agency : **Sri. Chandrashekar D L,** Contractor, Bangalore.

Name of the work : General Public toilet and Septage maintenance in Ward No.15 Dasarahalli, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : **28th** day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	05.07.2021	02.08.2021	8.188	505.6	22.47
2	05.07.2021	02.08.2021	8.165	516.3	22.97
3	05.07.2021	02.08.2021	8.152	484.3	21.52

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples Collected at the Site.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

1523 W-15

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CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/CDL/W.No.15/2021-22

Date: 16.07.2021

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Contractor : **Sri. Chandrashekar D L,** Contractor, Bangalore.

Name of Work : General Public toilet and Septage maintenance in Ward No.15 Dasarahalli, BBMP, Bangalore.

No.of Sample Tested : 03

Date of Testing : 16.07.2021

Techinical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Grade of Concrete : M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	82.00	0.379	2353.94	1.64	0.961	32.30	16.45	17.77	17.08	21.34
2	50.00	84.00	0.392	2376.71	1.68	0.965	33.60	17.11	18.48	17.84	22.30
3	50.00	86.00	0.405	2398.43	1.72	0.970	34.20	17.42	18.81	18.24	22.80

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